*Journal of the Autonomic Nervous System*, 18 (1987) 265–266
Elsevier



# Author Index

Ahonen, M., Soinila, S. and Joh, T.H., Pre- and postnatal development of rat retroperitoneal paraganglia, 111
Aldskogius, H. and Elfvin, L.-G., Demonstration of preganglionic fibers in the inferior mesenteric ganglion, pelvic ganglia and related nerves of the guinea pig by anterogradely transported wheat germ agglutinin-horseradish peroxidase conjugate, 105
Al-Zahid, S., see Schneyer, C.A., 207
Amenta, F., Bronzetti, E., Cavallotti, C. and Felici, L., Quantitative image analysis of the density and pattern of adrenergic innervation of blood vessels of rat spinal cord, 261
Amenta, F., see Mione, M.C., 177
Ammons, W.S., see Brennan, T.J., 61

Blackshaw, L.A., Grundy, D. and Scratcherd, T., Vagal afferent discharge from gastric mechanoreceptors during contraction and relaxation of the ferret corpus, 19
Blackshaw, L.A., Grundy, D. and Scratcherd, T., Involvement of gastrointestinal mechano- and intestinal chemoreceptors in vagal reflexes: an electrophysiological study, 225
Blessing, W.W., Oliver, J.R., Hodgson, A.H., Joh, T.H. and Willoughby, J.O., Neuropeptide Y-like immunoreactive $C_1$ neurons in the rostral ventrolateral medulla of the rabbit project to sympathetic preganglionic neurons in the spinal cord, 121
Bornstein, J.C., Furness, J.B. and Costa, M., Sources of excitatory synaptic inputs to neurochemically identified submucous neurons of guinea-pig small intestine, 83
Brennan, T.J., Oh, U.T., Girardot, M.-N., Ammons, W.S. and Foreman, R.D., Inhibition of cardiopulmonary input to thoracic spinothalamic tract cells by stimulation of the subcoeruleus-parabrachial region in the primate, 61
Brokaw, J.J. and Hansen, J.T., Evidence that dopamine regulates norepinephrine synthesis in the rat superior cervical ganglion during hypoxic stress, 185
Bronzetti, E., see Amenta, F., 261
Burke, S.L., see Dorward, P.K., 39

Cassell, J., see Dorward, P.K., 39
Cavallotti, C., see Amenta, F., 261
Cavallotti, C., see Mione, M.C., 177
Chaudhry, I.A., see Kobayashi, O., 55
Collier, W.L., see Mione, M.C., 177
Costa, M., see Bornstein, J.C., 83

Dorward, P.K., Burke, S.L., Jänig, W. and Cassell, J., Reflex responses to baroreceptor, chemoreceptor and nociceptor inputs in single renal sympathetic neurones in the rabbit and the effects of anaesthesia on them, 39
Duncalf, D., see Kobayashi, O., 55

Elfvin, L.-G., see Aldskogius, H., 105

Fahim, M., see Ravi, K., 33
Felici, L., see Amenta, F., 261
Fidone, S.J., see Gonzalez, E., 249
Foldes, F.F., see Kobayashi, O., 55
Foreman, R.D., see Brennan, T.J., 61
Furness, J.B., see Bornstein, J.C., 83

Gauthier, S., see Yashpal, K., 93
George, J.C., see John, T.M., 153
Girardot, M.-N., see Brennan, T.J., 61
Goldiner, P.L., see Kobayashi, O., 55
Gonzalez, E., Rigual, R., Fidone, S.J. and Gonzalez, C., Mechanisms for termination of the action of dopamine in carotid body chemoreceptors, 249
Gonzalez, C., see Gonzalez, E., 249
Grundy, D., see Blackshaw, L.A., 19
Grundy, D., see Blackshaw, L.A., 225
Gulbenkian, S., Wharton, J. and Polak, J.M., The visualisation of cardiovascular innervation in the guinea pig using an antiserum to protein gene product 9.5 (PGP 9.5), 235

Hall, H.D., see Schneyer, C.A., 207
Hansen, J.T., see Brokaw, J.J., 185
Harsing, Jr., L.G., see Kobayashi, O., 55
Head, G.A. and Howe, P.R.C., Effects of 6-hydroxydopamine and the PNMT inhibitor LY134046 on pressor responses to stimulation of the subretrofacial nucleus in anaesthetized stroke-prone spontaneously hypertensive rats, 213
Hendry, I.A., see Hill, C.E., 73
Henry, J.L., see Yashpal, K., 93
Hill, C.E., Hendry, I.A. and Sheppard, A., Use of the fluorescent dye, Fast blue, to label sympathetic postganglionic neurones supplying mesenteric arteries and enteric neurones of the rat, 73
Hodgson, A.H., see Blessing, W.W., 121
Howe, P.R.C., see Head, G.A., 213
Humphreys-Beher, M., see Schneyer, C.A., 207

Jänig, W., see Dorward, P.K., 39
Joh, T.H., see Ahonen, M., 111

Joh, T.H., see Blessing, W.W., 121
John, T.M. and George, J.C., Physiological responses of vagotomized pigeons exposed to ambient temperatures gradually reduced from 34°C to 2°C, 153

Kobayashi, O., Nagashima, H., Duncalf, D., Chaudhry, I.A., Harsing, Jr., L.G., Foldes, F.F., Goldiner, P.L. and Vizi, E.S., Direct evidence that pancuronium and gallamine enhance the release of norepinephrine from the atrial sympathetic nerve by inhibiting prejunctional muscarinic receptors, 55
Krieger, A.J., see Willette, R.N., 143
Krieger, E.M., see Saavedra, J.M., 181
Krier, J., see Percy, W.H., 195

Lahiri, S., see Mulligan, E., 25
Langhans, W. and Scharrer, E., Evidence for a vagally mediated satiety signal derived from hepatic fatty acid oxidation, 13
Ludbrook, J., see Rutter, P.C., 131

Mione, M.C., Cavallotti, C., Collier, W.L. and Amenta, F., The noradrenergic innervation of the vasa nervorum in old rats: a fluorescence histochemical study, 177
Miura, M., see Onai, T., 163
Mulligan, E. and Lahiri, S., Cat carotid body chemoreceptor responses before and after nicotine receptor blockade with α-bungarotoxin, 25

Nagashima, H., see Kobayashi, O., 55

Oh, U.T., see Brennan, T.J., 61
Oliver, J.R., see Blessing, W.W., 121
Onai, T., Takayama, K. and Miura, M. Projections to areas of the nucleus tractus solitarii related to circulatory and respiratory responses in cats, 163

Pavia, J.M., see Rutter, P.C., 131
Percy, W.H. and Krier, J., Cholinergic excitatory synaptic potentials of neurones in mammalian lumbar paravertebral ganglia, 195
Polak, J.M., see Gulbenkian, S., 235
Punnen-Grandy, S., see Willette, R.N., 143

Ravi, K. and Fahim, M., Rhythmic contractile activity of the pulmonary artery studied in vivo in cats, 33
Rigual, R., see Gonzalez, E., 249
Robertson, D.R., Sympathetic preganglionic neurons in frog spinal cord, 1
Rutter, P.C., Pavia, J.M. and Ludbrook, J., Analysis of mechanisms responsible for the bradycardic action of naloxone after haemorrhage in the conscious rabbit, 131

Saavedra, J.M. and Krieger, E.M., Early increase in adrenomedullary catecholamine synthesis in sinoaortic denervated rats, 181
Sapru, H.N., see Willette, R.N., 143
Scharrer, E., see Langhans, W., 13
Schneyer, C.A., Humphreys-Beher, M., Al-Zahid, S. and Hall, H.D., Muscarinic receptors of rat parotid gland enlarged by gland ablation and bulk diet. Effects of denervation, 207
Scratcherd, T., see Blackshaw, L.A., 19
Scratcherd, T., see Blackshaw, L.A., 225
Sheppard, A., see Hill, C.E., 73
Soinila, S., see Ahonen, M., 111

Takayama, K., see Onai, T., 163

Vizi, E.S., see Kobayashi, O., 55

Wharton, J., see Gulbenkian, S., 235
Willette, R.N., Punnen-Grandy, S., Krieger, A.J. and Sapru, H.N., Differential regulation of regional vascular resistance by the rostral and caudal ventrolateral medulla in the rat, 143
Willoughby, J.O., see Blessing, W.W., 121

Yashpal, K., Gauthier, S. and Henry, J.L., Substance P given intrathecally at the spinal $T_9$ level increases arterial pressure and heart rate in the rat, 93

*Journal of the Autonomic Nervous System*, 18 (1987) 267–271
Elsevier



# Key Word Index

Acetylcholine
Ganglion; Muscarinic receptor; Rabbit; Substance P; Synaptic transmission, 195
Acetylcholine receptor
Hypoxia; Hypercapnia; Mecamylamine; Oxygen sensor, 25
Adrenal
Atenolol; Baroreflex; Ganglion blockade; Heart rate; Hyoscine methyl bromide; Mecamylamine; Opioid; Sympathetic; Vagus, 131
Adrenal gland
Neuropeptide Y; Colocalization study; Sympathetic preganglionic neuron; Cl catecholamine-synthesizing neuron, 121
Adrenal medulla
Catecholamine; Rat; Sinoaortic denervation; Neurogenic hypertension, 181
Adrenergic innervation
Image analysis; Anterior Spinal Artery; Central spinal artery; Posterior spinal vein; Rat, 261
Aging
Rat; Noradrenergic innervation; Vasa nervorum; Image analysis, 177
Amphibian
Sympathetic nervous system; Spinal cord; *Rana pipiens*; Horseradish peroxidase labeling, 1
Anaesthesia
Renal vasoconstrictor neuron; Cardiac rhythmicity; Respiratory rhythmicity; Baroreceptor reflex; Chemoreceptor reflex, 39
Analgesia
Cardiac pain; Bradykinin; *Macaca fascicularis*; Sympathetic afferent fiber, 61
Anterior spinal artery
Central spinal artery: Posterior spinal vein; Rat; Adrenergic innervation; Image analysis, 261
Anterograde axonal transport
Lectin conjugated horseradish peroxidase; Light microscopy; Sympathetic neuron; Preganglionic axon; Prevertebral ganglion, 105
Arterial pressure
Sympathetic preganglionic neuron; Hypertension; Substance P; Cardiovascular control; Heart rate, 93
Atenolol
Baroreflex; Ganglion blockade; Heart rate; Hyoscine methyl bromide; Mecamylamine; Opioid; Sympathetic; Vagus; Adrenal, 131

Baroreceptor reflex
Renal vasoconstrictor neuron; Cardiac rhythmicity; Respiratory rhythmicity; Chemoreceptor reflex; Anaesthesia, 39
Baroreflex
Ganglion blockade; Heart rate; Hyoscine methyl bromide; Mecamylamine; Opioid; Sympathetic; Vagus; Adrenal; Atenolol, 131
Body temperature
Cold exposure; Heart rate; Metabolic heat production; pigeon; Respiratory frequency; Shivering; Vagotomy, 153
Bradykinin
Cardiac pain; *Macaca fascicularis*; Sympathetic afferent fiber; Analgesia, 61
Brainstem
Cardiovascular system; Solitary tract nucleus; Horseradish peroxidase; Forebrain; Fastigial nucleus, 163
Bulk diet
Muscarinic receptor; Parotid gland; Enlargement; Denervation, 207

Calcitonin gene-related peptide (CGRP)
Neuropeptide tyrosine (NPY); Substance P; Guinea pig; Immunocytochemistry; Protein gene product (PGP) 9.5; Cardiovascular system; Neuronal marker, 235
Cardiac pain
Bradykinin; *Macaca fascicularis*; Sympathetic afferent fiber; Analgesia, 61
Cardiac rhythmicity
Renal vasoconstrictor neuron; Respiratory rhythmicity; Baroreceptor reflex; Chemoreceptor reflex; Anaesthesia, 39
Cardiovascular control
Heart rate; Arterial pressure; Sympathetic preganglionic neuron; Hypertension; Substance P, 93
Cardiovascular system
Solitary tract nucleus; Horseradish peroxidase; Forebrain; Fastigial nucleus; Brainstem, 163
Cardiovascular system
Neuronal marker; Calcitinon gene-related peptide (CGRP); Neuropeptide tyrosine (NPY); Substance P; Guinea pig; Immunocytochemistry; Protein gene product (PGP) 9.5, 235
Carotid body
Dopamine uptake; Dopamine metabolism, 249
Catecholamine
Histochemistry; Paraganglion; Sympathetic nervous system; Development, 111
Cl Catecholamine-synthetizing neuron
Adrenal gland; Neuropeptide Y; Colocalization study; Sympathetic preganglionic neuron, 121
Catecholamine

Rat; Sinoaortic denervation; Neurogenic hypertension; adrenal medulla, 181

Catecholamine turnover
Tyrosine hydroxylase activity; Hypoxic stress; Small intensely fluorescent (SIF) cell; Superior cervical ganglion, 185

Central catecholamine pathway
Central serotonin; 6-Hydroxydopamine; 5,7-Dihydroxytryptamine; Ventrolateral medulla; Subretrofacial nucleus; Stroke-prone spontaneously hypertensive rat; PNMT inhibitor, 213

Central serotonin
6-Hydroxydopamine; 5,7-Dihydroxytryptamine; Ventrolateral medulla; Subretrofacial nucleus; Stroke-prone spontaneously hypertensive rat; PNMT inhibitor; Central catecholamine pathway, 213

Central spinal artery
Posterior spinal vein; rat; Adrenergic innervation; Image analysis; Anterior spinal artery, 261

Chemoreceptor reflex
Renal vasoconstrictor neuron; Cardiac rhythmicity; Respiratory rhythmicity; Baroreceptor reflex; Anaesthesia, 39

Cholinergic neuron
Myenteric plexus; Submucous plexus; Slow excitatory potential (SEP); Vasoactive intestinal peptide; Neuropeptide Y, 83

Cold exposure
Heart rate; Metabolic heat production; Pigeon; Respiratory frequency; Shivering; Vagotomy; Body temperature, 153

Colocalization study
Sympathetic preganglionic neuron; Cl catecholamine-synthesizing neuron; Adrenal gland; Neuropeptide Y, 121

Denervation
Bulk diet; Muscarinic receptor; Parotid gland; Enlargement, 207

Development
Catecholamine; Histochemistry; Paraganglion; Sympathetic nervous system, 111

5,7-Dihydroxytryptamine
Ventrolateral medulla; Subretrofacial nucleus; Stroke-prone spontaneously hypertensive rat; PNMT inhibitor; central catecholamine pathway; Central serotonin; 6-Hydroxydopamine, 213

Dopamine metabolism
Carotid body; Dopamine uptake, 249

Dopamine uptake
Dopamine metabolism; Carotid body, 249

Enlargement
Denervation; Bulk diet; Muscarinic receptor; Parotid gland, 207

Fast blue
Sympathetic neuron; Mesenteric artery; Ileal neuron, 73

Fastigial nucleus
Brainstem; Cardiovascular system; Solitary tract nucleus; Horseradish peroxidase; Forebrain, 163

Food intake
$\beta$-Oxidation of fatty acids; Metabolic receptor; Vagal afferent; Hepatic vagotomy; Hyperphagia; 2-Mercaptoacetate; Medium fat diet, 13

Forebrain
Fastigial nucleus; Brainstem; Cardiovascular system; solitary tract nucleus; Horseradish peroxidase, 163

Ganglion
Muscarinic receptor; Rabbit; Substance P; Synaptic transmission; Acetylcholine, 195

Ganglion blockade
Heart rate; Hyoscine methyl bromide; Mecamylamine; Opioid; Sympathetic; Vagus; Adrenal; Atenolol; Baroreflex, 131

Gastrointestinal mechanoreceptor
Vagal afferent; In-series tension receptor; Stomach, 19

Gastrointestinal mechanoreceptor
Intestinal chemoreceptor; Vagus nerve; Vagal efferent; Vagal reflex; Vomiting, 225

Glutamate
Muscimol; Sympathetic outflow; Vascular resistance; Ventrolateral medulla, 143

Guinea pig
Immunocytochemistry; Protein gene product (PGP) 9.5; Cardiovascular system; Neuronal marker; Calcitonin gene-related peptide (CGRP); Neuropeptide tyrosine (NPY); Substance P, 235

Heart rate
Arterial pressure; Sympathetic Preganglionic neuron; Hypertension; Substance P; Cardiovascular control, 93

Heart rate
Hyoscine methyl bromide; Mecamylamine; Opioid; Sympathetic; Vagus; Adrenal; Atenolol; Baroreflex; Ganglion blockade, 131

Heart rate
Metabolic heat production; Pigeon; Respiratory frequency; Shivering; Vagotomy; Body temperature; Cold exposure, 153

Hepatic vagotomy
Food intake; $\beta$-Oxidation of fatty acids; Metabolic receptor; Vagal afferent; Hyperphagia; 2-Mercaptoacetate; Medium fat diet, 13

Histochemistry
Paraganglion; Sympathetic nervous system; Development; Catecholamine, 111

Horseradish peroxidase
Forebrain; Fastigial nucleus; Brainstem; Cardiovascular system; Solitary tract nucleus, 163

Horseradish peroxidase labeling
Sympathetic nervous system; Spinal cord; *Rana pipiens*; Amphibian, 1

6-Hydroxydopamine
5,7-Dihydroxytryptamine; Ventrolateral medulla; Subretro-

facial nucleus; Stroke-prone spontaneously hypertensive rat; PNMT inhibitor; Central catecholamine pathway; Central serotonin, 213

Hyoscine methyl bromide
Mecamylamine; Opioid; Sympathetic; Vagus; Adrenal; Atenolol; Baroreflex; Ganglion blockade; Heart rate, 131

Hypercapnia
Acetylcholine receptor; hypoxia; Mecamylamine; Oxygen sensor, 25

Hyperphagia
Food intake; β-oxidation of fatty acids; Metabolic receptor; Vagal afferent; Hepatic vagotomy; 2-Mercaptoacetate; Medium fat diet, 13

Hypertension
Substance P; Cardiovascular control; Heart rate; Arterial pressure; Sympathetic preganglionic neuron, 93

Hypoxia
Acetylcholine receptor; Hypercapnia; Mecamylamine; Oxygen sensor, 25

Hypoxic stress
Small intensely fluorescent (SIF) cell; Superior cervical ganglion; Catecholamine turnover; tyrosine hydroxylase activity, 185

Ileal neuron
Sympathetic neuron; Mesenteric artery; Fast blue, 73

Image analysis
Aging; Rat; Noradrenergic innervation; Vasa nervorum, 177

Image analysis
Anterior spinal artery; Central spinal artery; Posterior spinal vein; Rat; Adrenergic innervation, 261

Immunocytochemistry
Protein gene product (PGP)9.5; Cardiovascular system; neuronal marker; Calcitonin gene-related peptide (CGRP); Neuropeptide tyrosine (NPY); Substance P; Guinea pig, 235

In-series tension receptor
Vagal afferent; Gastrointestinal mechanoreceptor; Stomach, 19

Intestinal chemoreceptor
Vagus nerve; Vagal efferent; Vagal reflex; Vomiting; Gastrointestinal mechanoreceptor, 225

Lectin conjugated horseradish peroxidase
Light microscopy; Sympathetic neuron; Preganglionic axon; Prevertebral ganglion; Anterograde axonal transport, 105

Light microscopy
Sympathetic neuron; Preganglionic axon; Prevertebral ganglion; Anterograde axonal transport; Lectin conjugated horseradish peroxidase, 105

*Macaca fascicularis*
Cardiac pain; Bradykinin; Sympathetic afferent fiber; Analgesia, 61

Measurement technique
Neuromuscular relaxant; Muscarinic receptor antagonist, 55

Mecamylamine
Acetylcholine receptor; Hypoxia; Hypercapnia; Oxygen sensor, 25

Mecamylamine
Opioid; Sympathetic; Vagus; Adrenal; Atenolol; Baroreflex; Ganglion blockade; Heart rate; Hyoscine methyl bromide, 131

Medium fat diet
Food intake; β-Oxidation of fatty acids; Metabolic receptor; Vagal afferent; Hepatic vagotomy; Hyperphagia; 2-Mercaptoacetate, 13

2-Mercaptoacetate
Food intake; β-Oxidation of fatty acids; Metabolic receptor; Vagal afferent; Hepatic vagotomy; Hyperphagia; Medium fat diet, 13

Mesenteric artery
Sympathetic neuron; Ileal neuron; Fast blue, 73

Metabolic heat production
Pigeon; Respiratory frequency; Shivering; Vagotomy; Body temperature; Cold exposure; Heart rate, 153

Metabolic receptor
Food intake; β-Oxidation of fatty acids; Vagal afferent; Hepatic vagotomy; Hyperphagia; 2-Mercaptoacetate; Medium fat diet, 13

Muscarinic receptor
Rabbit; Substance P; Synaptic transmission; Acetylcholine; Ganglion, 195

Muscarinic receptor
Parotid gland; Enlargement; Denervation; Bulk diet, 207

Muscarinic receptor antagonist
Neuromuscular relaxant; Measurement technique, 55

Muscimol
Sympathetic outflow; Vascular resistance; Ventrolateral medulla; Glutamate, 143

Myenteric plexus
Submucous plexus; Cholinergic neuron; Slow excitatory potential (SEP); Vasoactive intestinal peptide; Neuropeptide Y, 83

Neurogenic hypertension
Adrenal medulla; Catecholamine; Rat; Sinoaortic denervation, 181

Neuromuscular relaxant
measurement technique; Muscarinic receptor antagonist, 55

Neuronal marker
Calcitonin gene-related peptide (CGRP); Neuropeptide tyrosine (NPY); Substance P; Guinea pig; Immunocytochemistry; Protein gene product (PGP) 9.5; cardiovascular system, 235

Neuropeptide tyrosine (NPY)
Substance P; Guinea pig; Immunocytochemistry; Protein gene product (PGP) 9.5; Cardiovascular system; Neuronal marker; Calcitonin gene-related peptide (CGRP), 235

Neuropeptide Y
Myenteric plexus; Submucous plexus; Cholinergic neuron; Slow excitatory potential (SEP); Vasoactive intestinal peptide, 83

Neuropeptide Y
Colocalization study; Sympathetic preganglionic neuron; Cl catecholamine-synthesizing neuron; Adrenal gland, 121
Noradrenergic innervation
Vasa nervorum; Image analysis; Aging; Rat, 177

Opioid
Sympathetic; Vagus; Adrenal; Atenolol; Baroreflex; Ganglion blockade; Heart rate; Hyoscine methyl bromide; Mecamylamine, 131
$\beta$-Oxidation of fatty acids
Food intake; Metabolic receptor; Vagal afferent; Hepatic vagotomy; Hyperphagia; 2-Mercaptoacetate; Medium fat diet, 13
Oxygen sensor
Acetylcholine receptor; Hypoxia; Hypercapnia; Mecamylamine, 25

Paraganglion
Sympathetic nervous system; Development; Catecholamine; Histochemistry, 111
Parotid gland
Enlargement; Denervation; Bulk diet; Muscarinic receptor, 207
Pigeon
Respiratory frequency; Shivering; Vagotomy; Body temperature; Cold exposure; Heart rate; Metabolic heat production, 153
PNMT inhibitor
Central catecholamine pathway; Central serotonin; 6-Hydroxydopamine; 5,7-Dihydroxytryptamine; Ventrolateral medulla; Subretrofacial nucleus; Stroke-prone spontaneously hypertensive rat, 213
Posterior spinal vein
Rat; Adrenergic innervation; Image analysis; Anterior spinal artery; Central spinal artery, 261
Preganglionic axon
Prevertebral ganglion; Anterograde axonal transport; Lectin conjugated horseradish peroxidase; Light microscopy; Sympathetic neuron, 105
Prevertebral ganglion
Anterograde axonal transport; Lectin conjugated horseradish peroxidase; light microscopy; Sympathetic neuron; Preganglionic axon, 105
Protein gene product (PGP) 9.5
Cardiovascular system; Neuronal marker; Calcitonin gene-related peptide (CGRP); Neuropeptide tyrosine (NPY); Substance P; Guinea pig; Immunocytochemistry, 235
Pulmonary artery
Pulse synchronized contraction; Vagal stimulation, 33
Pulse synchronized contraction
Pulmonary artery; Vagal stimulation, 33

Rabbit
Substance P; Synaptic transmission; Acetylcholine; Ganglion; Muscarinic receptor, 195
*Rana pipiens*
Sympathetic nervous system; Spinal cord; Amphibian; Horseradish peroxidase labeling, 1
Rat
Noradrenergic innervation; Vasa nervorum; Image analysis; Aging, 177
Rat
Sinoaortic denervation; Neurogenic hypertension; Adrenal medulla; Catecholamine, 181
Rat
Adrenergic innervation; Image analysis; Anterior spinal artery; Central spinal artery; Posterior spinal vein, 261
Renal vasoconstrictor neuron
Cardiac rhythmicity; Respiratory rhythmicity; Baroreceptor reflex; Chemoreceptor reflex; Anaesthesia, 39
Respiratory frequency
Shivering; Vagotomy; Body temperature; Cold exposure; Heart rate; Metabolic heat production; Pigeon, 153
Respiratory rhythmicity
Renal vasoconstrictor neuron; Cardiac rhythmicity; Baroreceptor reflex; Chemoreceptor reflex; Anaesthesia, 39

Shivering
Vagotomy; Body temperature; Cold exposure; Heart rate; Metabolic heat production; Pigeon; Respiratory frequency, 153
Sinoartic denervation
Neurogenic hypertension; Adrenal medulla; Catecholamine; Rat, 181
Slow excitatory potential (SEP)
Myenteric plexus; Submucous plexus; Cholinergic neuron; Vasoactive intestinal peptide; Neuropeptide Y, 83
Small intensely fluorescent (SIF) cell
Superior cervical ganglion; Catecholamine turnover; Tyrosine hydroxylase activity; Hypoxic stress, 185
Solitary tract nucleus
Horseradish peroxidase; Forebrain; Fastigial nucleus; Brainstem; Cardiovascular system, 163
Spinal cord
Sympathetic nervous system; *Rana pipiens*; Amphibian; Horseradish peroxidase labeling, 1
Stomach
Vagal afferent; Gastrointestinal mechanoreceptor; In-series tension receptor, 19
Stroke-prone spontaneously hypertensive rat
PNMT inhibitor; Central catecholamine pathway; Central serotonin; 6-Hydroxydopamine; 5,7-Dihydroxytryptamine; Ventrolateral medulla; Subretrofacial nucleus, 213
Submucous plexus
Myenteric plexus; Cholinergic neuron; Slow excitatory potential (SEP); Vasoactive intestinal peptide; Neuropeptide Y, 83
Subretrofacial nucleus
Stroke-prone spontaneously hypertensive rat; PNMT inhibitor; Central catecholamine pathway; Central serotonin; 6-Hydroxydopamine; 5,7-Dihydroxytryptamine; Ventrolateral medulla, 213
Substance P

Cardiovascular control; Heart rate; Arterial pressure; Sympathetic preganglionic neuron; Hypertension, 93

Substance P
Synaptic transmission; Acetylcholine; Ganglion; Muscarinic receptor; Rabbit, 195

Substance P
Guinea pig; Immunocytochemistry; Protein gene product (PGP) 9.5; Cardiovascular system; Neuronal marker; Calcitonin gene-related peptide (CGRP); Neuropeptide tyrosine (NPY), 235

Superior cervical ganglion
Catecholamine turnover; Tyrosine hydroxylase activity; Hypoxic stress; Small intensely fluorescent (SIF) cell, 185

Sympathetic
Vagus; Adrenal; Atenolol; Baroreflex; Ganglion blockade; Heart rate; Hyoscine methyl bromide; Mecamylamine; Opioid, 131

Sympathetic afferent fiber
Cardiac pain; Bradykinin; *Macaca fascicularis*; Analgesia, 61

Sympathetic nervous system
Spinal cord; *Rana pipiens*; Amphibian; Horseradish peroxidase labeling, 1

Sympathetic nervous system
Development; Catecholamine; Histochemistry; Paraganglion, 111

Sympathetic neuron
Mesenteric artery; Ileal neuron; Fast blue, 73

Sympathetic neuron
Preganglionic axon; Prevertebral ganglion; Anterograde axonal transport; Lectin conjugated horseradish peroxidase; Light microscopy, 105

Sympathetic outflow
Vascular resistance; Ventrolateral medulla; Glutamate; Muscimol, 143

Sympathetic preganglionic neuron
Hypertension; Substance P; Cardiovascular control; Heart rate; Arterial pressure, 93

Sympathetic preganglionic neuron
Cl catecholamine-synthesizing neuron; Adrenal gland; Neuropeptide Y; Colocalization study, 121

Synaptic transmission
Acetylcholine; Ganglion; Muscarinic receptor; Rabbit; Substance P, 195

Tyrosine hydroxylase activity
Hypoxic stress; Small intensely fluorescent (SIF) cell; Superior cervical ganglion; Catecholamine turnover, 185

Vagal afferent
Food intake; $\beta$-Oxidation of fatty acids; metabolic receptor; Hepatic vagotomy; Hyperphagia; 2-Mercaptoacetate; Medium fat diet, 13

Vagal afferent
Gastrointestinal mechanoreceptor; In-series tension receptor; Stomach, 19

Vagal efferent
vagal reflex; vomiting; gastrointestinal mechanoreceptor; intestinal chemoreceptor; vagus nerve, 225

Vagal reflex
Vomiting; Gastrointestinal mechanoreceptor; Intestinal chemoreceptor; Vagus nerve; Vagal efferent, 225

Vagal stimulation
Pulmonary artery; Pulse synchronized contraction, 33

Vagotomy
Body temperature; Cold exposure; Heart rate; Metabolic heat production; Pigeon; Respiratory frequency; Shivering, 153

Vagus
Adrenal; Atenolol; Baroreflex; Ganglion blockade; Heart rate; Hyoscine methyl bromide; Mecamylamine; Opioid; Sympathetic, 131

Vagus nerve
Vagal efferent; Vagal reflex; Vomiting; Gastrointestinal mechanoreceptor; Intestinal chemoreceptor, 225

Vasa nervorum
Image analysis; Aging; Rat; Noradrenergic innervation, 177

Vascular resistance
Ventrolateral medulla; Glutamate; Muscimol; Sympathetic outflow, 143

Vasoactive intestinal peptide
Myenteric plexus; Submucous plexus; Cholinergic neuron; Slow excitatory potential (SEP); Neuropeptide Y, 83

Ventrolateral medulla
Glutamate; Muscimol; Sympathetic outflow; Vascular resistance, 143

Ventrolateral medulla
Subretrofacial nucleus; Stroke-prone spontaneously hypertensive rat; PNMT inhibitor; Central catecholamine pathway; Central serotonin; 6-Hydroxydopamine; 5,7-Dihydroxytryptamine, 213

Vomiting
Gastrointestinal mechanoreceptor; Intestinal chemoreceptor; Vagus nerve; Vagal efferent; Vagal reflex, 225